

This listing of claims will replace all prior versions, and listings, of claims in the application:

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1 Claim 1 (original): A method of providing a communications service in a system
2 including a calling party, a first receiving party having a first computer and a first
3 telephone device; and a second receiving party having a second computer and a
4 second telephone device, the method comprising:
5 detecting a hook flash;
6 in response to detecting a hook flash,
7 transmitting call related data, at least some of which
8 was previously provided to the first computer, to the second
9 computer; and
10 establishing a voice connection between the calling
11 party and the second telephone device.

1 Claim 2 (currently amended): The method of claim 1,
2 wherein said step of detecting a hook flash includes detecting activation of an
3 AIN hook flash mid call trigger at a telephone switch; and
4 wherein the call related data includes sales information.

1 Claim 3 (original): The method of claim 1, wherein the step of detecting a hook flash
2 includes:
3 operating a telephone switch coupling the calling party to the first
4 telephone device by a telephone line to monitor the telephone line for a hook flash.

1 Claim 4 (original): The method of claim 3, further comprising the step of setting a
2 hook flash mid-call trigger on said telephone line at the telephone switch prior to
3 performing the step of detecting a hook flash.

1 Claim 5 (original): The method of claim 3, wherein the step of transmitting call
2 related data to the second computer includes:

3 operating the telephone switch in response to activation of a mid-call
4 trigger to send a message to a service control point;
5 operating the service control point to send a message to a server; and
6 operating the server to transmit said call related data to the second
7 computer.

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1 Claim 6 (currently amended): ~~The method of claim 5;~~ A method of providing a
2 communications service in a system including a calling party, a first receiving party
3 having a first computer and a first telephone device; and a second receiving party
4 having a second computer and a second telephone device, the method comprising:
5 _____ detecting a hook flash, the step of detecting a hook flash including
6 operating a telephone switch coupling the calling party to the first telephone device
7 by a telephone line to monitor the telephone line for a hook flash;
8 _____ in response to detecting a hook flash,
9 _____ a) transmitting call related data, at least some of which was
10 previously provided to the first computer, to the second
11 computer; and
12 _____ b) establishing a voice connection between the calling party
13 and the second telephone device;
14 _____ wherein the step of transmitting call related data to the second computer
15 includes:
16 _____ i) operating the telephone switch in response to activation of a mid-call
17 trigger to send a message to a service control point;
18 _____ ii) operating the service control point to send a message to a server;
19 and
20 _____ iii) operating the server to transmit said call related data to the second
21 computer; and

22 wherein the telephone switch sends a telephone number received from the
23 first receiving party with the message sent to the service control point, the method
24 further comprising:
25 operating the service control point to determine the status of the
26 telephone line identified by the telephone number.

A' 1 Claim 7 (original): The method of claim 6, wherein the step of operating the service
2 control point to determine the status of the telephone line includes:
3 operating the service control point to transmit a monitor for change
4 message to the telephone switch; and
5 receiving from the telephone switch a message indicating the status of
6 the telephone line identified by said telephone number.

1 Claim 8 (original): The method of claim 6, wherein the step of establishing a voice
2 connection between the calling party and the second telephone device includes:
3 operating the service control point to instruct the telephone switch to
4 establish a telephone call between the first receiving party and the party identified by
5 said telephone number;
6 operating the telephone switch to detect an additional hook flash; and
7 in response to detecting the additional hook flash, operating the
8 telephone switch to add the calling party to the telephone call established between the
9 first receiving party and the party identified by said telephone number.

1 Claim 9 (original): The method of claim 8, wherein the party identified by said
2 telephone number is the second receiving party.

1 Claim 10 (original): The method of claim 1, wherein the step of transmitting call
2 related data to the second computer includes:

3 operating a server to receive a telephone number from the first
4 receiving party;
5 operating the server to look-up an address of the second computer
6 from the received telephone number; and
7 generating a message to the second computer including said address
8 and said call related data.

A' 1 Claim 11 (original): The method of claim 10, further comprising the step of:
2 transmitting the generated message to the second computer using a
3 communications network which support Internet Protocol communications.

1 Claim 12 (original): The method of claim 10, further comprising, prior to operating
2 the server to receive said telephone number:
3 operating a telephone switch coupled to the first telephone device to
4 transmit said telephone number to a service control point; and
5 operating the service control point to transmit said telephone number
6 to the server.

1 Claim 13 (original): The method of claim 12, wherein the step of establishing a voice
2 connection between the calling party and the second telephone device includes:
3 operating the service control point to control the telephone switch to
4 initiate a telephone call to the second telephone device using said telephone number.

1 Claim 14 (original): The method of claim 13, wherein the step of establishing a voice
2 connection between the calling party and the second telephone device includes:
3 operating the telephone switch to initiate a telephone call to the second
4 telephone device using said telephone number.

1 Claim 15 (original): The method of claim 1, wherein the step of establishing a voice
2 connection between the calling party and the second telephone device includes:
3 determining the status of a telephone line coupled to the second
4 telephone device.

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1 Claim 16 (original): The method of claim 15, wherein the step of determining the
2 status of the telephone line includes:
3 operating a serve to determine the status of said telephone line from
4 the second computer, the second computer being coupled to the second telephone
5 device.

1 Claim 17 (original): The method of claim 1, wherein the step of determining the
2 status of the telephone line includes:
3 operating a service control point to send a monitor for change message
4 to a telephone switch; and
5 operating the service control point to receive telephone line status
6 information in response to the monitor for change message.

1 Claim 18 (currently amended): A communications method, the communications
2 method comprising:
3 setting a hook flash mid-call trigger at a telephone switch on a telephone line;
4 receiving a first telephone number over said telephone line; and
5 in response to the hook flash mid-call trigger being activated, sending
6 the first telephone number to a service control point;
7 operating the service control point to transmit transmitting a monitor
8 for change message including said first telephone number to a the telephone switch,
9 the monitor for change message including a first telephone number;
10 operating the telephone switch to determine the status of a telephone
11 line corresponding to the first telephone number; and

12 controlling the telephone switch to perform a call routing operation as
13 a function of the determined telephone line status.

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1 Claim 19 (original): The method of claim 18, wherein the step of controlling the
2 telephone switch includes:
3 establishing a call using the first telephone number if it is determined
4 that the telephone line corresponding to the first telephone number is not busy.

1 Claim 20 (original): The method of claim 19, further comprising:
2 operating a server to transmit call related data to a computer identified
3 as being associated with the first telephone number.

1 Claim 21 (original): The method of claim 18, further comprising the step of:
2 operating the telephone switch to supply the determined line status to a
3 service control point; and
4 wherein the step of controlling the telephone switch to perform a call
5 routing operation includes:
6 operating the service control point to provide a second
7 telephone number to the telephone switch to be used in said call
8 routing operation if the determined line status indicates that said
9 telephone line is busy.

1 Claim 22 (original): The method of claim 21, wherein the step of controlling the
2 telephone switch to perform a call routing operation further includes:
3 operating the service control point to receive the second telephone
4 number from a server including automated call distribution functionality.

1 Claim 23 (original): The method of claim 22, further comprising:

2 operating said server to transmit call related data to a computer
3 identified as being associated with the second telephone number.

1 Claims 24-26 (canceled):

1 Claim 27 (currently amended): The method of claim 26 18, further comprising the
2 step of:

3 operating the service control point to transmit the first telephone
4 number to a server; and

5 operating the server to transmit call related data to a computer
6 associated with the first telephone number.

1 Claim 28 (currently amended): The method of claim 19 -26, further comprising the
2 step of:

3 operating the service control point to transmit the first telephone
4 number to a server; and

5 operating the server to transmit call related data to a computer
6 associated with the first telephone number.

1 Claim 29 (currently amended): A communications system, comprising:

2 a service control point including instructions to transmit a monitor for
3 change message to a telephone switch, the monitor for change message including a
4 first telephone number and including instructions to control initiation of a call as a
5 function of telephone line status information received in response to the monitor for
6 change message; and

7 a telephone switch including:

8 i) an AIN hook flash mid-call trigger set on a telephone line;

9 and

10 ii) means for transmitting a telephone number received by the
11 switch to the service control point in response to activation of the hook
12 flash mid-call trigger; and
13 iii) means for processing monitor for change messages, said
14 means operating to control the telephone switch to determine the status
15 of a telephone line corresponding to the first telephone number.

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1 Claim 30 (canceled):

1 Claim 31 (original): The communication system of claim 29, wherein the instructions
2 to transmit a monitor for change message are stored in a call processing record.

1 Claim 32 (original): The communications system of claim 29, further comprising:
2 a server including automated call distribution functionality coupled to
3 said service control point.

1 Claim 33 (original): The communications system of claim 32, further comprising:
2 a first computer system coupled to the server by a network which
3 supports Internet Protocol communications; and
4 a first telephone device coupled to said telephone switch and said first
5 computer system, the computer system including a telephone application
6 programming interface for interfacing with said first telephone device.

1 Claim 34 (original): The communications system of claim 33, further comprising:
2 a second computer system coupled to the server by said network which
3 supports Internet Protocol communications; and
4 a second telephone device coupled to said telephone switch and said
5 first computer system, the computer system including a telephone application
6 programming interface for interfacing with said second telephone device.

1 Claim 35 (original): The communications system of claim 34, wherein the server
2 includes a database for each of a plurality of telephone service subscribers, the
3 database including for each telephone service subscriber, a telephone number
4 associated with a telephone device used by the service subscriber and a
5 communications address which can be used to communicate with a computer system
6 used by said service subscriber.

1 Claim 36 (original): The communications system of claim 35, wherein the service
2 control point further includes a call processing record for a plurality of the telephone
3 service subscribers for which information is stored in the server database.

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1 Claim 37 (original): A communications system including:
2 a server including information on a plurality of telephone service
3 subscribers, the information for each of the plurality of telephone service subscribers
4 including a telephone number associated with the telephone service subscriber and a
5 communications address corresponding to a computer used by the telephone service
6 subscriber;
7 a service control point including a call processing record for each of at
8 least some of the plurality of telephone service subscribers for which information is
9 stored in the server, the service control point being coupled to the server by a first
10 communications network; and
11 a telephone switch coupled to the service control point and to at least
12 one telephone device associated with a telephone service subscriber, the telephone
13 switch having a hook flash mid-call trigger set on at least one telephone line
14 associated with a telephone service subscriber for which information is stored in said
15 server.

1 Claim 38 (original): The communications system of claim 37, wherein at least one of
2 the call processing records stored in said service control point includes instructions

3 for sending a monitor for change message to said telephone switch in response to
4 receiving a message from said telephone switch indicating that the hook flash mid-
5 call trigger was activated.

1 Claim 39 (original): A communications system, the communications system
2 including:
3 a telephone switch having a hook flash midcall trigger set on a
4 telephone line; and
5 a service control point coupled to the telephone switch, the service
6 control point including a call processing record, the call processing record including
7 instructions to send a monitor for change message to said telephone switch in
8 response to the service control point receiving a message from said telephone switch
9 that was generated in response to activation of said hook flash midcall trigger.

1 Claim 40 (original): The communication system of claim 39, further comprising:
2 a server including a routine for sending call related information to a
3 computer system associated with a telephone number; and
4 wherein the call processing record in said service control point further
5 includes instructions for controlling the service control point to transmit a telephone
6 number, included in said message from said telephone switch, to said server.